



VIALS FILLING & CLOSING MACHINE

TYPE FLR100



Standard equipment

- Adjustable infeed magazine
- Product range: 1 – 100 ml
- Max. diameter: 32 mm
- Output up to: 6.000/h
- One filling station. Dosing by means of seal-less rotary piston pumps made of stainless steel SUS 316L or ceramic.
- Filling ranges: 0,2-2 ml / 1-5 ml / 2-10 ml / 6-30 ml / 10-50 ml / 20-100 ml
- Feature „No vial – no filling“
“No stopper/dropper – no cap“
- PLC control Siemens S7
- Operator interface with coloured touch screen 5.7“
- Interlocking safety cabinet
- Change parts set for one vial size
- Change parts set for one stopper/dropper kind and size
- Change parts set for one cap kind and size
- Outfeed magazine

Options

- Special dimensions for infeed and outfeed magazine
- Inert gas supply before, during and after filling as well as during sealing
- Inert gas supply deficiency control
- Laminar flow hood
- Pump moistening device
- Diverse filters for gasses and medium
- Special infeed system for line integration
- Turntable infeed/outfeed
- Conveyor belt infeed/outfeed
- Control devices
- CFR 21 Part 11 compliant industrial PC
- Batch protocol printer
- Further options on request

Features

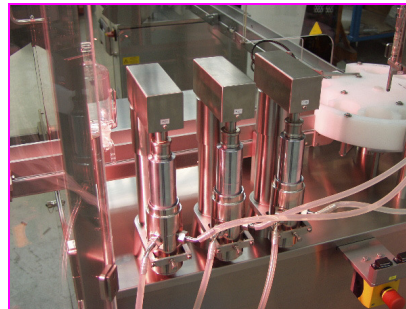
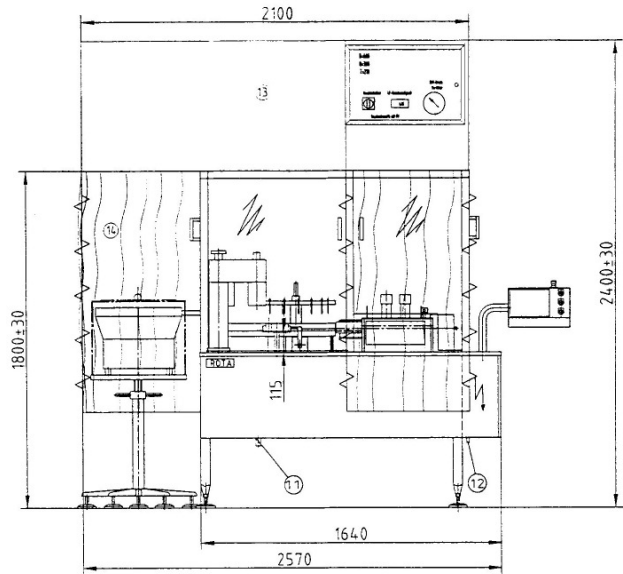
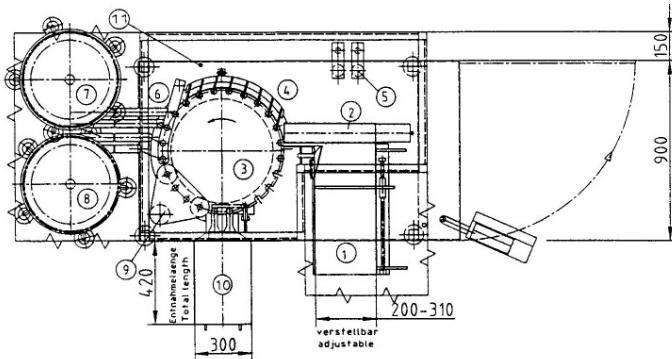
The vial filling and closing machines type FLR100 are suitable for filling any liquid, either under sterile conditions or not and are ideal for small scale production. Thanks to their compact design, the machines type FLR100 fit to small rooms and are very easy to operate and clean.

Since vial processing means also facing a wide range of vial types and closure types, the FLR100 machines are available in many versions, some of them being able to :

- Fill and close with rubber stopper (FLR100/G) / Vial crimping (FLR100/B)
- Fill, close and crimp with alu-caps (FLR100/FB)
- Fill, close with rubber stopper and crimp with alu-caps (FLR100/GB)
- Fill and close with screw caps (FLR100/S)
- Fill, insert a dropper and close with screw caps (FLR100/TS)

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The inclined metal belt gently pushes the bunch of vials towards the infed screw, which separates and transports them to the main star wheel. The transport star wheel hands gradually the vials over the machine through the filling station (pre-gassing, gassing during filling and post-gassing are optionally available) and closing stations. Thus a careful object transport is ensured, especially when handling non stable vials. When handling stable vials, the infed can happen also with a turntable, or via an unscrambler when processing plastic vials (e.g. eye drops).

Vials are filled by mean of a rotary piston pump (accuracy better than $\pm 0.5\%$). Depending on the vials to be processed and the requested output of the machine at large filling volume, the FLR50 can be equipped with up to four filling pumps respectively four filling stations. This ensures a large flexibility in terms of filling volumes, and high productivity from low to large volumes.

After the closing station, the filled and closed vials are gently pushed out of the transport star wheel by an exiting finger into the outfeed magazine, where they can be discharged by means of suitable trays.

For stable vials, the outfeed can also happen on a turntable or on a conveyor belt, directly connecting the FLR100 to other processing machines, like FLR100/B for crimping with alu-caps when the vials have only been filled and closed with a rubber stopper for example.